# pale ale

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU **2**
- SRM **3.4**

#### **Batch size**

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 27.5 liter(s)
- Boil time 40 min
- Evaporation rate 15 %/h
- Boil size 31.7 liter(s)

# **Mash information**

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 17.4 liter(s)
- Total mash volume 23.2 liter(s)

#### Steps

- Temp 52 C, Time 15 min
  Temp 72 C, Time 60 min
  Temp 78 C, Time 1 min

# Mash step by step

- Heat up 17.4 liter(s) of strike water to 57.3C
- Add grains
- Keep mash 15 min at 52C
- Keep mash 60 min at 72C
- Keep mash 1 min at 78C
- Sparge using 20.1 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

# **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3 kg <i>(51.7%)</i>	80 %	4
Grain	Pszeniczny	2 kg <i>(34.5%)</i>	85 %	4
Grain	Płatki owsiane	0.8 kg <i>(13.8%)</i>	85 %	3

# Hops

Use for	Name	Amount	Time	Alpha acid
Whirlpool	Citra	100 g	1 min	12 %